

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. – 4. (Canceled)

5. (Currently Amended) An isolated polypeptide selected from the group consisting of:

- a) a polypeptide which is encoded by a nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of the nucleotide sequence of SEQ ID NO:1 and SEQ ID NO:3; and
- b) a polypeptide comprising amino acid residues 1 to 350 of SEQ ID NO:2, wherein the polypeptide has a kinase activity; and
- c) a polypeptide comprising an amino acid sequence at least 95% identical to SEQ ID NO:2, wherein the polypeptide has a kinase activity.

6. (Original) The polypeptide of claim 5 further comprising heterologous amino acid sequences.

7. – 11. (Canceled)

12. (Withdrawn- Currently Amended) A method for identifying a compound which binds to a polypeptide ~~of claim 5~~ comprising the steps of:

- a) contacting ~~a polypeptide, or a cell expressing a~~ the polypeptide of claim 5 with a test compound; and
- b) determining whether the polypeptide binds to the test compound.

13. (Withdrawn- Currently Amended) The method of claim 12, wherein the binding of the test compound to the polypeptide is detected by a method selected from the group consisting of:

- a) detection of binding by direct detecting of test compound/polypeptide binding;
- b) detection of binding using a competition binding assay; and
- c) detection of binding using an assay for protein kinase-mediated phosphorylation; and

d) ~~detection of binding using a two-hybrid assay.~~

14. (Canceled)

15. (Currently Amended) A method for identifying a compound which modulates ~~the an~~ activity of a polypeptide ~~of claim 5~~, comprising:

- a) contacting ~~[[a]]~~ the polypeptide of claim 5 with a test compound; and
- b) determining the effect of the test compound on ~~the an~~ activity of the polypeptide to thereby identify a compound that modulates the activity of the polypeptide.

16. (Currently Amended) The method of claim 15, wherein the activity of the polypeptide is determined in a kinase assay using a ~~44171 kinase substrate protein or peptide capable of being phosphorylated.~~

17. – 20. (Canceled)

21. (Previously Presented) The polypeptide of claim 5, wherein the polypeptide comprises SEQ ID NO:2.

22. (Canceled)

23. (Withdrawn) The method of claim 12, wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:2.

24. (Withdrawn) The method of claim 12, wherein the polypeptide is immobilized on a solid surface.

25. (Withdrawn) The method of claim 12, wherein the test compound is directly or indirectly labeled.

26. (Currently Amended) The method of claim ~~15~~ 13, wherein the method comprises ATP binding to activity of the polypeptide is the ability to bind ATP.

27. (Withdrawn) The method of claim 15, wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:2.

28. (Currently Amended) The method of claim 16, wherein the 14171 kinase substrate protein or peptide capable of being phosphorylated has a T-P motif.

29. (Withdrawn-Currently Amended) The method of claim 15, further comprising the step of contacting a cell comprising wherein the polypeptide is expressed in a cell and with the test compound is contacted with the cell expressing the polypeptide.

30. (Withdrawn-Currently Amended) The method of claim 29, wherein the method determines apoptosis of the cell activity of the polypeptide is selected from the group consisting of:

- ____ a) phosphorylation activity; and
- ____ b) apoptosis.

31. (Withdrawn) The method of claim 29, wherein the cell is selected from a group consisting of an epithelial cell and a tumor cell.

32. (Withdrawn-Currently Amended) The method of claim 29, wherein the method determines activity of the polypeptide is determined by determining the activity of a target molecule.

33. (Withdrawn) The method of claim 32, wherein the activity of the target molecule is selected from the group consisting of:

- a) cellular second messenger activity,
- b) catalytic/enzymatic activity,
- c) reporter gene induction, and
- d) cellular growth, differentiation or proliferation.

34. (Withdrawn) The method of claim 33, wherein the reporter gene induction follows activity selected from the group consisting of nuclear factor-kappaB activity and interleukin-8 activity.

35. (Previously Presented) An isolated polypeptide consisting of the amino acid sequence of SEQ ID NO:2.